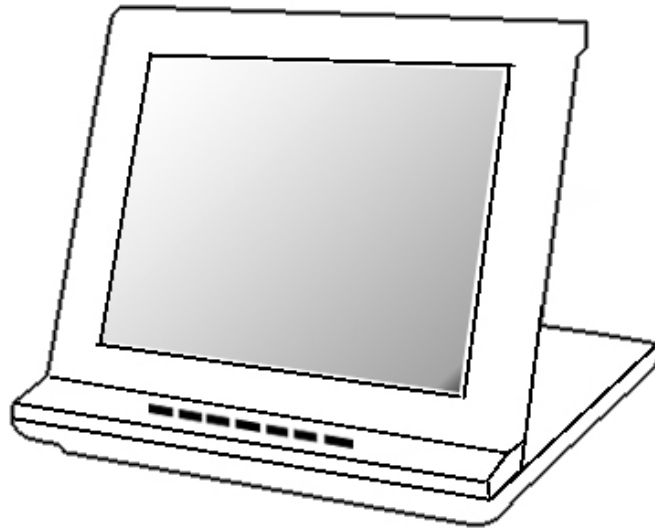


# **10.4" TFT-LCD TV**

## ***SERVICE MANUAL***

**CHASSIS :LT-11A**  
**MODEL : L10V22**



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# SAFETY PRECAUTIONS

## Important Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

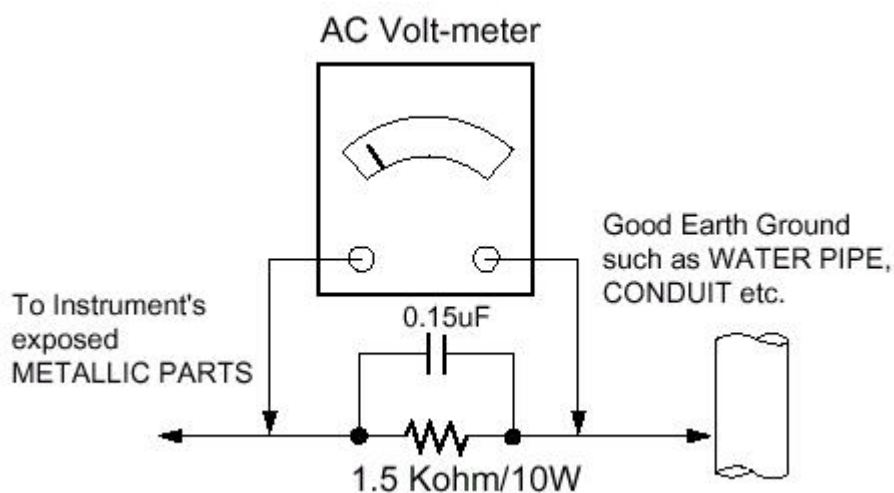
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug of the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part.

Any voltage measured must not exceed 0.75 volt RMS, which is, corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



# SPECIFICATIONS

Note : Specifications and others are subject to change without notice for improvement.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Power requirement:</b><br>··AC 110-240V, 50/60Hz (Cold SMPS)<br>/ DC 12V ADAPTOR<br><b>2. Tuning system:</b><br>··FS, 181 Channel<br><b>3. Sound output:</b><br>··1.0W+1.0W<br><b>4. Intermediate Frequency (IF):</b><br>··Vision IF ; 38.9MHz<br>··Color IF ; 35.32MHz<br>··Sound IF ; 34.4MHz<br><b>5. Power consumption :</b><br>··22W(3W-ST-BY)<br><b>6. Antenna input impedance :</b><br>··VHF/UHF 75ohm , Unbalanced type (NTSC)<br><b>7. Voice coil impedance:</b><br>··8ohm(4ohm option) | <b>8. OSD (On Screen Display) :</b><br>·· Window Type<br><b>9. External in/output: Headphone, Phone Jack : Option</b><br>·· Audio-In ; 0.4Vrms, over 10Kohm<br>·· Video-In ; 1Vp-p, over 75ohm<br><b>10. Function:</b><br>·· CATV/Hyper band<br>·· Auto Program<br>·· Manual Program<br>·· Auto Sleep<br>·· Recall<br>·· Quick view<br>·· ACMS(Auto channel Memory System)<br>·· PSM(Picture Status memory)<br>·· SSM(Sound Status memory) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Receiving system

| No.          | System             | Model No. | LT-10AM |
|--------------|--------------------|-----------|---------|
| 1            | PAL-B              |           | X       |
| 2            | PAL-G              |           | X       |
| 3            | PAL-I,I/I          |           | X       |
| 4            | PAL-D              |           | X       |
| 5            | PAL-K              |           | X       |
| 6            | SECAM-B            |           | X       |
| 7            | SECAM-G            |           | X       |
| 8            | SECAM-D            |           | X       |
| 9            | SECAM- K           |           | X       |
| 10           | SECAM-K1           |           | X       |
| 11           | SECAM-I(6.0)       |           | X       |
| 12           | NTSC-3.58/4.5      |           | O       |
| 13           | NTSC-3.58/5.5      |           | X       |
| 14           | NTSC-3.58/6.0      |           | X       |
| 15           | NTSC-3.58/6.5      |           | X       |
| 16           | NTSC-3.58/4.5(5.0) |           | X       |
| 17           | NTSC-4.43/5.5      |           | X       |
| 18           | NTSC-4.43/6.0      |           | X       |
| 19           | NTSC-4.43/6.5      |           | X       |
| 20           | PAL 5.5/60HZ       |           | X       |
| 21           | PAL 6.0/60HZ       |           | X       |
| 22           | PAL 6.5/60HZ       |           | X       |
| 23           | SECAM 5.5/60HZ     |           | X       |
| 24           | SECAM 6.0/60HZ     |           | X       |
| 25           | SECAM 6.5/60HZ     |           | X       |
| 26           | SECAM L/L'         |           | X       |
| TOTAL SYSTEM |                    |           | 1       |

**TABLE1. RECEIVING SYSTEM (27 SYSTEM)**

| No. | Receiving System      | Function                                                     | Receiving Channel                                                                                                                      |
|-----|-----------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1   | PAL-B                 | Reception of broadcast and play-back for Video Tape Recorder | <b>VHF Band</b><br>NTSC-M (US) : 2-13<br>NTSC-M (JAPAN) : 1-12<br><br><b>UHF Band</b><br>NTSC-M (US) : 14-78<br>NTSC-M (JAPAN) : 13-62 |
| 2   | PAL-G                 |                                                              |                                                                                                                                        |
| 3   | PAL-I,I/I             |                                                              |                                                                                                                                        |
| 4   | PAL-D                 |                                                              |                                                                                                                                        |
| 5   | PAL-K                 |                                                              |                                                                                                                                        |
| 6   | SECAM-B               |                                                              |                                                                                                                                        |
| 7   | SECAM-G               |                                                              |                                                                                                                                        |
| 8   | SECAM-D               |                                                              |                                                                                                                                        |
| 9   | SECAM- K              |                                                              |                                                                                                                                        |
| 10  | SECAM-K1              |                                                              |                                                                                                                                        |
| 11  | NTSC-M                |                                                              |                                                                                                                                        |
| 12  | NTSC 3.58/4.5MHz/60Hz | Play-back for special Video Tape Recorder                    | <b>NTSC 3.58/4.5MHz/60Hz only</b>                                                                                                      |
| 13  | NTSC-4.43/5.5         |                                                              |                                                                                                                                        |
| 14  | NTSC-4.43/6.0         |                                                              |                                                                                                                                        |
| 15  | NTSC-4.43/6.5         |                                                              |                                                                                                                                        |
| 16  | SECAM-L'              |                                                              |                                                                                                                                        |
| 17  | SECAM-L               | Play-back for special Video Tape/Video disk player           | <b>NTSC 3.58/4.5MHz/60Hz only</b>                                                                                                      |
| 18  | NTSC 3.58/4.5MHz/60HZ |                                                              |                                                                                                                                        |
| 19  | PAL 5.5MHz/60HZ       |                                                              |                                                                                                                                        |
| 20  | PAL 6.0MHz/60HZ       |                                                              |                                                                                                                                        |
| 21  | PAL 6.5MHz/60HZ       |                                                              |                                                                                                                                        |
| 22  | SECAM 5.5 MHz /60HZ   |                                                              |                                                                                                                                        |
| 23  | SECAM 6.0 MHz /60HZ   |                                                              |                                                                                                                                        |
| 24  | SECAM 6.5 MHz /60HZ   |                                                              |                                                                                                                                        |
| 25  | NTSC-3.58/5.5MHz      | Play-back for special Video Tape Recorder                    |                                                                                                                                        |
| 26  | NTSC-3.58/6.0MHz      |                                                              |                                                                                                                                        |
| 27  | NTSC-3.58/6.5MHz      |                                                              |                                                                                                                                        |

# CONTROL DESCRIPTIONS

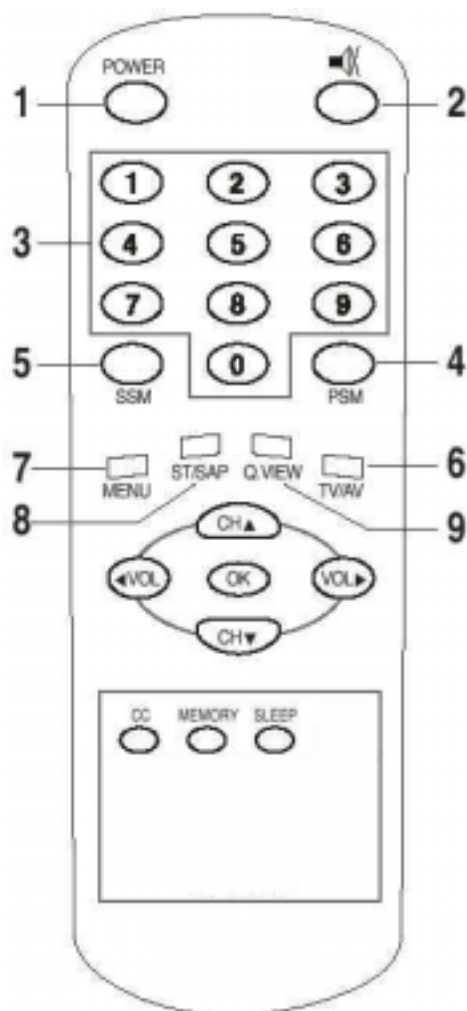
---

All the functions can be controlled with the remote control handset.

Some functions can also be adjusted with the buttons on the front panel of the set.

## Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.



### 1. POWER

Turns the TV on from standby or off to standby mode.

### 2. MUTE

Turns the sound on and off.

### 3. NUMBER buttons

Select channel numbers.

### 4. PSM (Picture Status Memory)

Recalls your preferred picture settings.

### 5. SSM (Sound Status Memory)

Recalls your preferred sound settings.

### 6. TV/AV

Selects TV, COMPONENT, VIDEO or S-VIDEO modes.

Clears menus from the screen.

### 7. MENU

Displays Main menu.

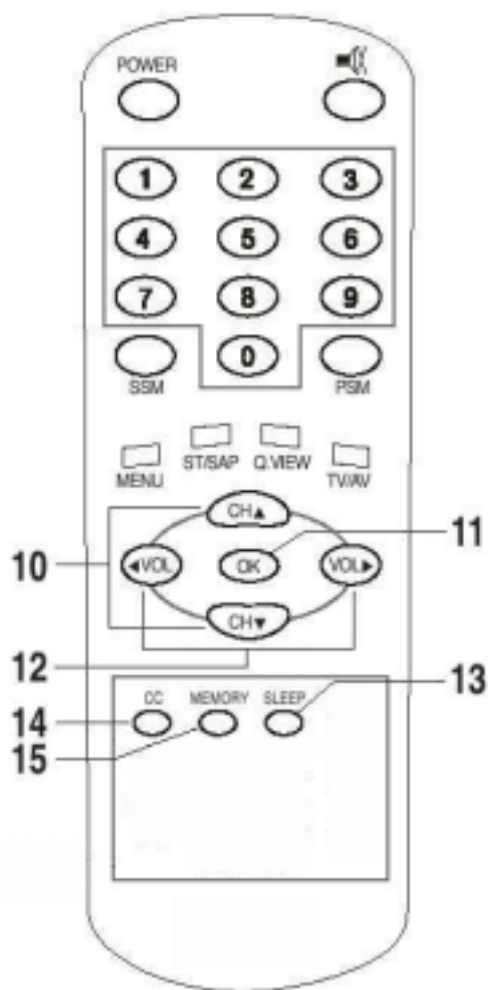
### 8. ST/SAP

Selects the MTS - Stereo, Mono, SAP

### 9. Q.VIEW

Returns to the previously viewed channel.

## CONTROL DESCRIPTIONS



### **10. CH▲▼ (Channel Up/Down)**

Selects next channel or menu option.

### **11. OK**

Accepts your selection or displays the current mode.

### **12. VOL◀▶ (Volume Up/Down)**

Adjusts the sound level.

Adjusts menu option settings.

### **13. SLEEP**

Sets the sleep timer.

### **14. CC**

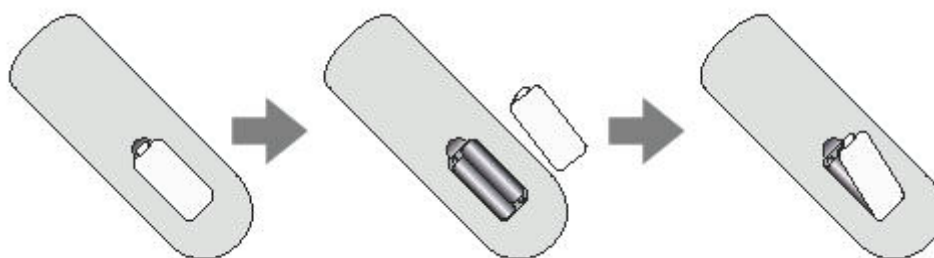
Selects caption/text option.

### **15. MEMORY**

Stores or removes the current channel.

## ► Battery installation

The remote control handset is powered by two AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols ( + and - ) marked inside the compartment.



### **Note :**

To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

# CONTROL DESCRIPTIONS

## Controller of Panel

### [ Front ]

#### 1. POWER/STANDBY INDICATOR

Illuminates brightly when the set is in standby mode.

Dims when the set is switched on.

#### 2. Remote control sensor

Accepts the signal of remote controller.

#### 3. TV/AV

Selects TV, COMPONENT, VIDEO or S-VIDEO.

Clears the menu from the screen.

#### 4. MENU

Displays a menu.

#### 5. - CH + (Channel Up/Down)

Selects a channel or a menu item.

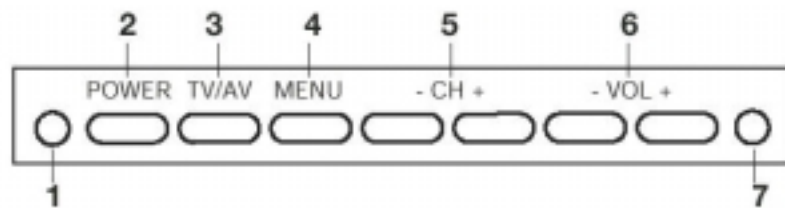
#### 6. - VOL + (Volume Up/Down)

Adjusts the volume.

Adjusts menu settings.

#### 7. POWER

Switches the set on or off .



### [ Rear ]

#### 8. Ant.

#### 9. DC12V

#### 10. COMPONENT INPUT

#### 11. HEADPHONE SOCKET

Connect the headphone plug to this socket.

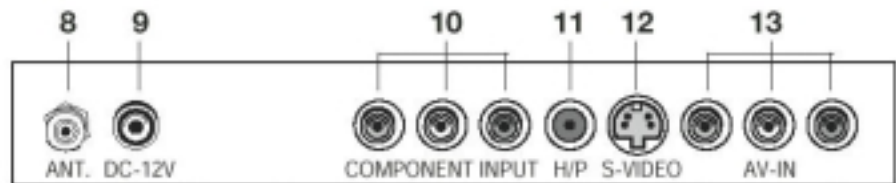
#### 12. S-VIDEO SOCKETS

Connects the video out socket of the S-VIDEO VCR to the **S-VIDEO** socket.

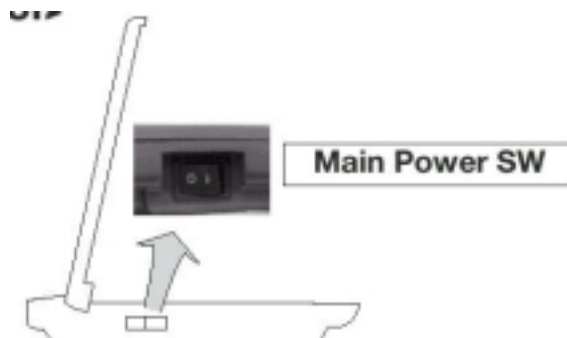
Connects the audio out socket of the S-VIDEO VCR to the L(MONO) and R sockets.

#### 13. A/V-IN SOCKETS

Connect the VIDEO out sockets of external equipment to these sockets.



### [ Side ]





# ADJUSTMENT

---

## Safety Precautions

1. Never disconnect leads while the TV receiver is on.
2. Don't short any portion of circuits while power is on.
3. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
4. Unless otherwise noted, set the line voltage to 230Vac 10%, 50Hz ./ 110Vac, 60Hz

## Test Equipment required

1. RF signal generator (with pattern generator)
2. Multi meter (volt meter)
3. Oscilloscope
4. LCD Color analyzer

## RF AGC (Automatic Gain Control) Adjustment

The RF AGC was aligned at the time of manufacture for optimum performance over a wide range conditions.

Readjustment of RF AGC should not be necessary unless unusual local conditions exist, such as ;

- 1) Channel interference in a CATV system.
- 2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified. In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
- 3) Picture noise caused by "broadcast noise" or weak signal. If the broadcast is "clean" and the RF signal is at least 1mV (60dBu), the picture will be noise free in any area.

Adjusting RF AGC to one end of rotation will usually cause a relatively poor signal to noise ratio; Adjusting to the other end of rotation will usually cause a degradation of over load capabilities resulting in color beats or adjacent channel interference.

### Adjustment

1. Connect RF signal ( $65\text{dB} \pm 0.5\text{dB}$ ) and turn on the TV.
2. Press MENU buttons on TV set and Remote Controller at the same time to get into SVC mode.
3. Press YELLOW button on the Remote Controller several times to find AGC.
4. Press Volume UP/DOWN button until the AGC Voltage is the same as the Table below.
5. Press OK button to memorize the data.
6. Press TV/AV button to exit SVC mode.

# ADJUSTMENT

## SVC Data Adjustment

**NOTE:** When the EEPROM has been replaced, the SVC data should be restored as the function of individual system and specification.

- 1) Press 5 Seconds MENU buttons on both TV set and Remote Controller at the same time to get into SVC mode.
- 2) Press the Yellow button several times to find SVC Data.
- 3) Input the corresponding SVC data referring to Table below with the Volume Up/down key.
- 4) Press the OK button to memorize the data.
- 5) Press TV/AV button to exit SVC mode

**SVC Data Table**

|        |         | L10V22 |         |  | REMARK                      |
|--------|---------|--------|---------|--|-----------------------------|
| DATA 1 | AGC     | 18     |         |  | Variable Data               |
|        | RD      | 80     |         |  |                             |
|        | GD      | 80     |         |  |                             |
|        | BD      | 80     |         |  |                             |
|        | RO      | 32     |         |  |                             |
|        | GO      | 32     |         |  |                             |
|        | BO      | 32     |         |  |                             |
|        | S-B     | 16     |         |  |                             |
|        | PC CP   | 0      |         |  |                             |
|        | LANG    | 0      |         |  | America                     |
|        | 60 CH * |        |         |  | * means current channel NO. |
| DATA 2 | FP      | 42     |         |  |                             |
|        | NP      | 89     |         |  |                             |
|        | SP      | 50     |         |  |                             |
|        | S1 VOL  | 105    |         |  |                             |
|        | S2 VOL  | 105    |         |  |                             |
|        | 60 CH * |        |         |  | * means current channel NO. |
| DATA 3 | KEY     | 0      | 6-KEY   |  |                             |
|        | AV1     | 1      |         |  |                             |
|        | DTV     | 0      |         |  |                             |
|        | LANG    | 0      | AMERICA |  |                             |
|        | TUNE    | 0      | AMERICA |  |                             |
|        | 60 CH*  |        |         |  |                             |
|        | 64      |        |         |  |                             |

# ADJUSTMENT

## AGC Adjustment (SVC Data 1)

Test point : AGC pin of Tuner  
Adjust : Remote Controller

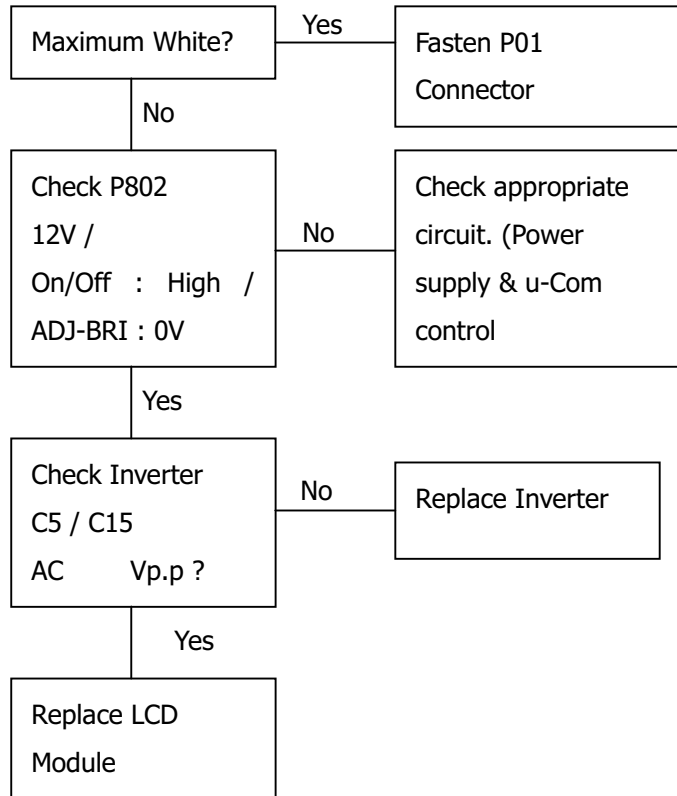
- 1) Connect RF signal ( $65\pm, 0.5\text{dB}\mu\text{V}$  ) and tune on the TV.
  - Standard adjustment channel  
- 07CH ( $f_r = 175.25\text{MHZ}$ )
- 2) Press 5 seconds MENU buttons on TV set and Remote controller at the same time to get into SVC Data.
- 3) Press the channel up/down button on the Remote Controller several times to find AGC??
- 6) Press the volume up/down button until the AGC voltage is the same as Table below.
- 7) Press **OK** button to memorize the data.

## OPTIONAL FUNCTION

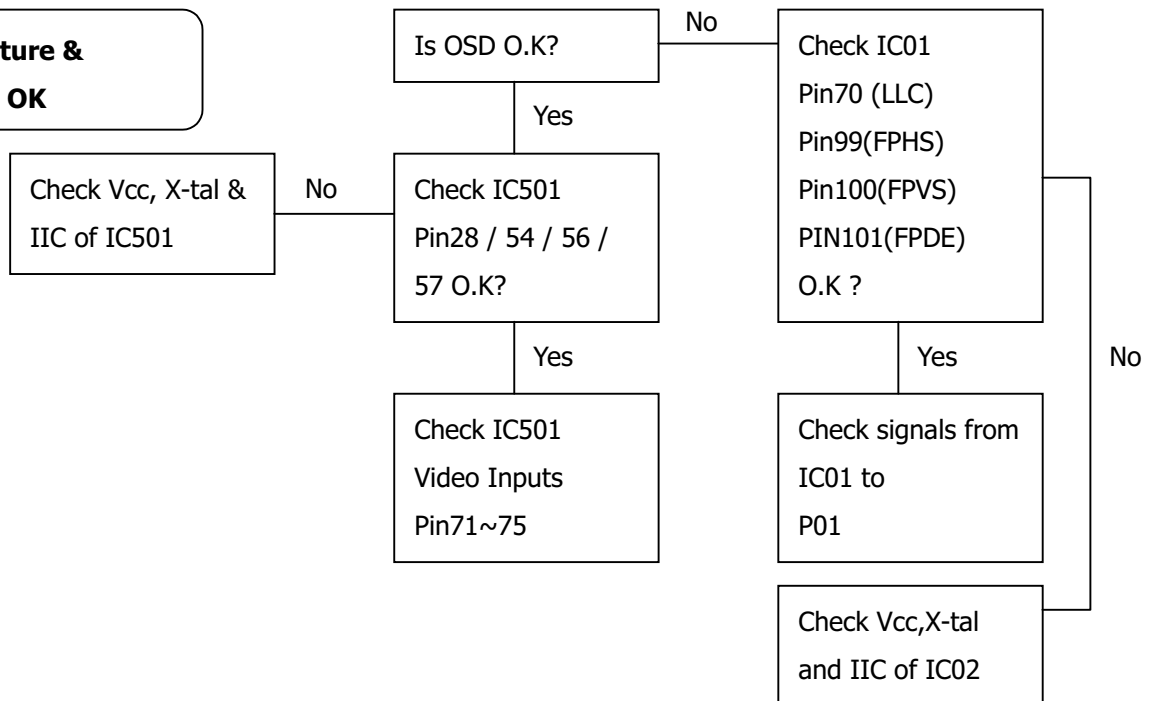
| OPTION | CODE | FUNCTION      | REMARK                                                                        |
|--------|------|---------------|-------------------------------------------------------------------------------|
| KEY    | 0    | 6-KEY         |                                                                               |
|        | 1    | 4-KEY         |                                                                               |
| AV1    | 0    | W/O COMPONENT |                                                                               |
|        | 1    | COMPONENT     |                                                                               |
| DTV    | 0    | W/O DTV       |                                                                               |
|        | 1    | DTV           |                                                                               |
| LANG   | 0    | AMERICA       | English, French, Espanol<br>English, Espanol, Portugunese<br>Korea<br>English |
|        | 1    | ENG 2EA       |                                                                               |
|        | 2    | KOREA         |                                                                               |
|        | 3    | RESERVED      |                                                                               |
| TUNE   | 0    | AMERICA       |                                                                               |
|        | 1    | KOREA         |                                                                               |
|        | 2    | JAPAN         |                                                                               |
|        | 3    | RESERVED      |                                                                               |

# TROUBLESHOOTING

**No Raster or  
Maximum White**

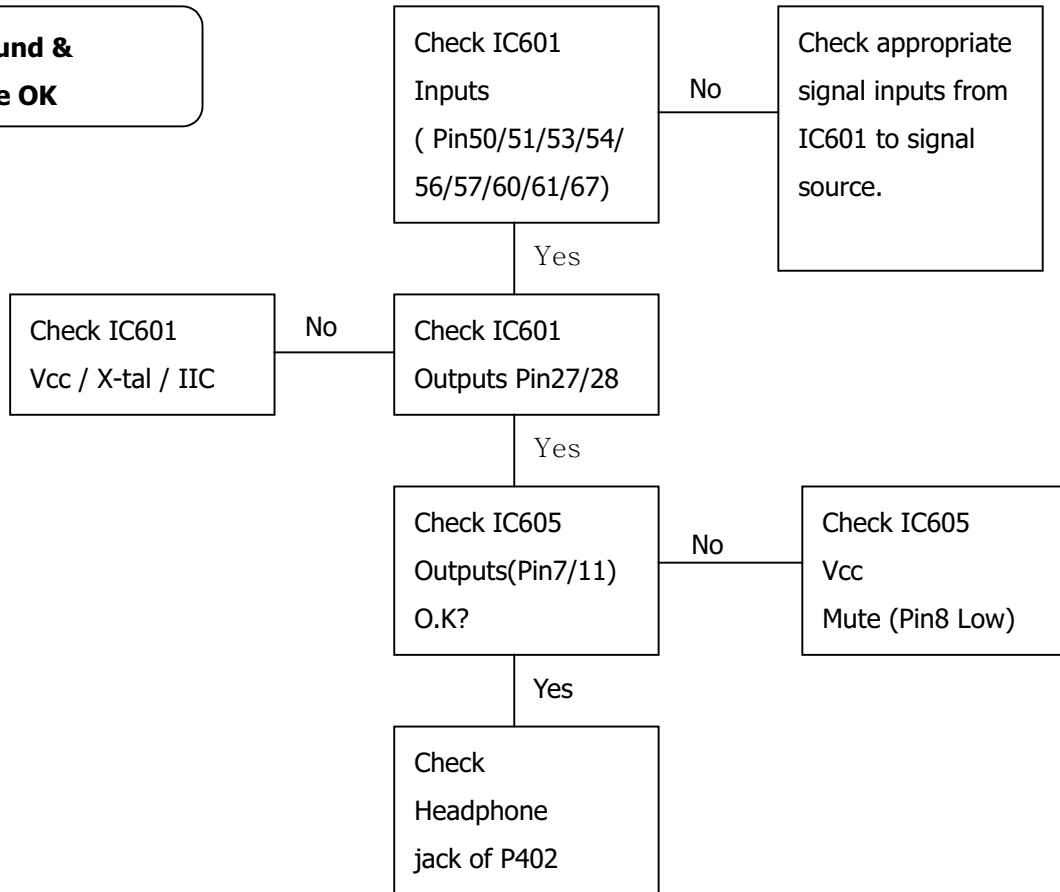


**No Picture &  
Sound OK**

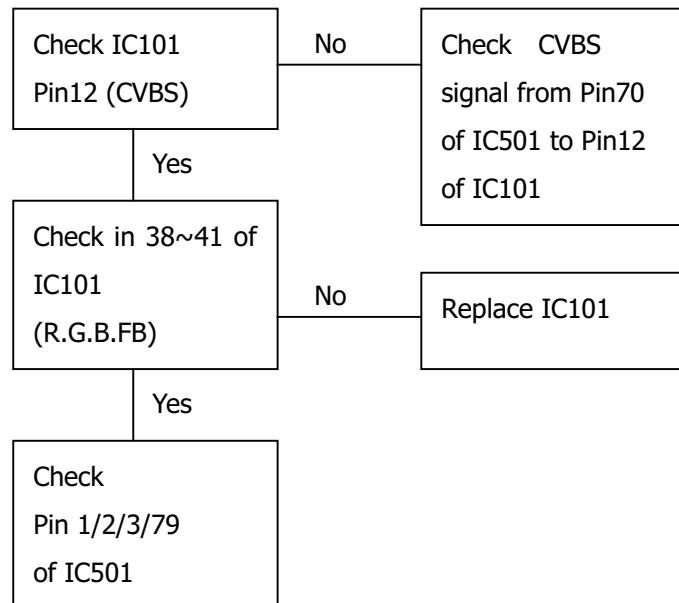


## TROUBLESHOOTING

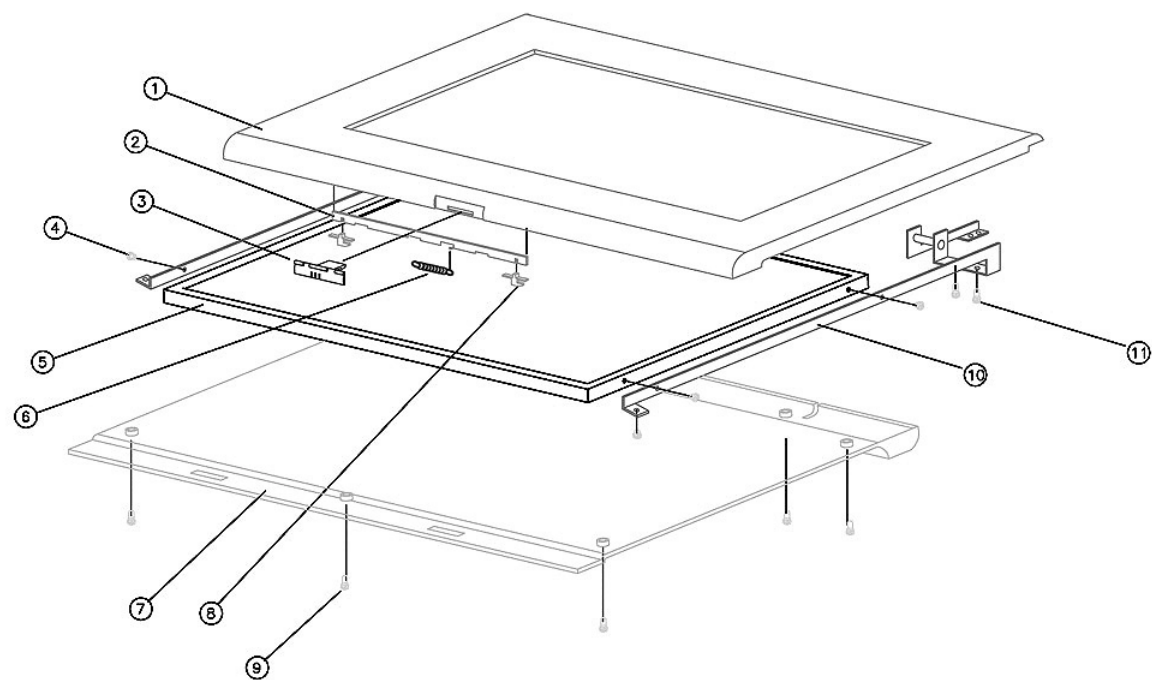
**No Sound &  
Picture OK**



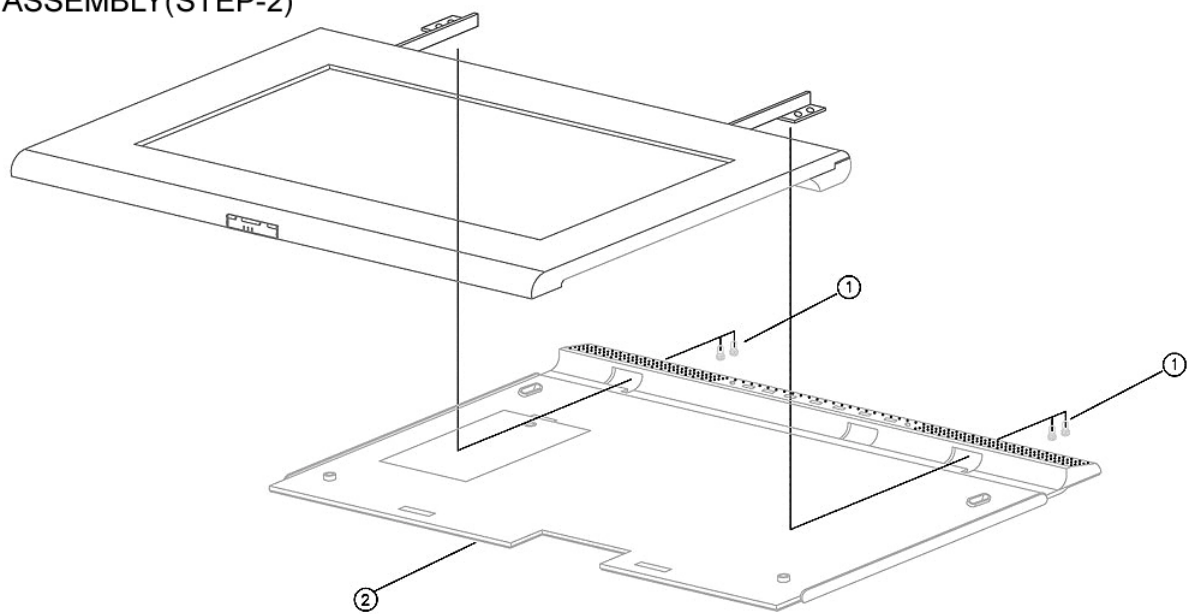
**No Closed caption**



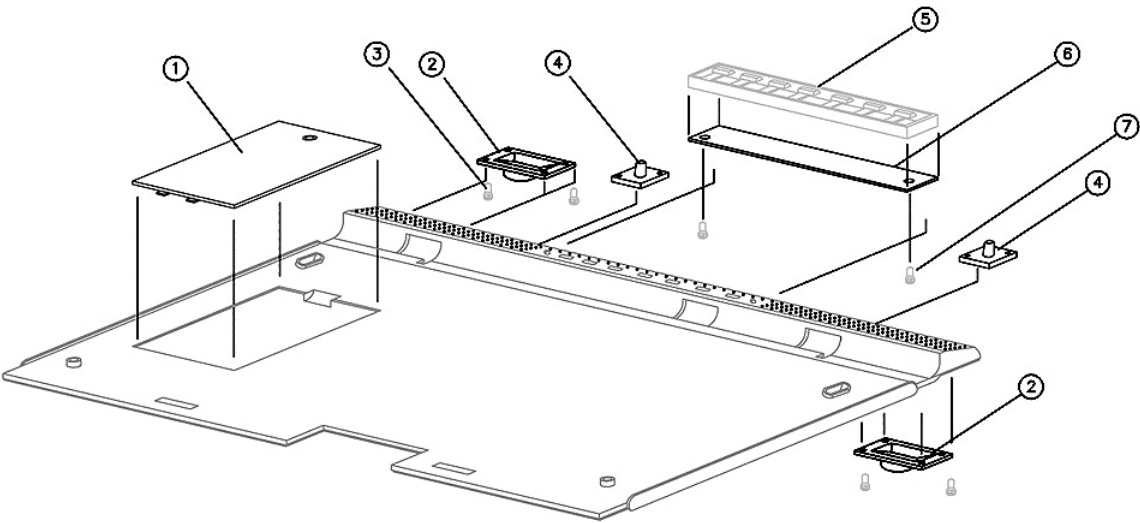
ASSEMBLY(STEP-1)



## ASSEMBLY(STEP-2)

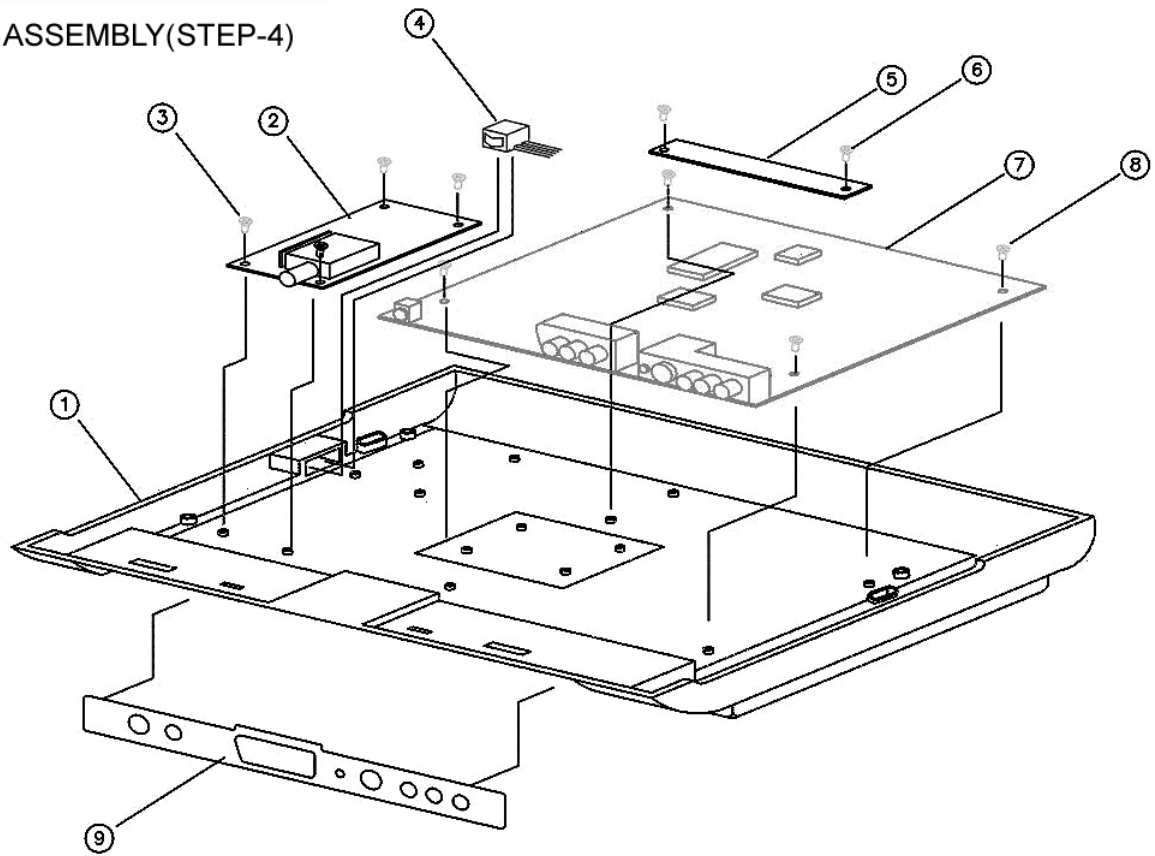


ASSEMBLY(STEP-3)

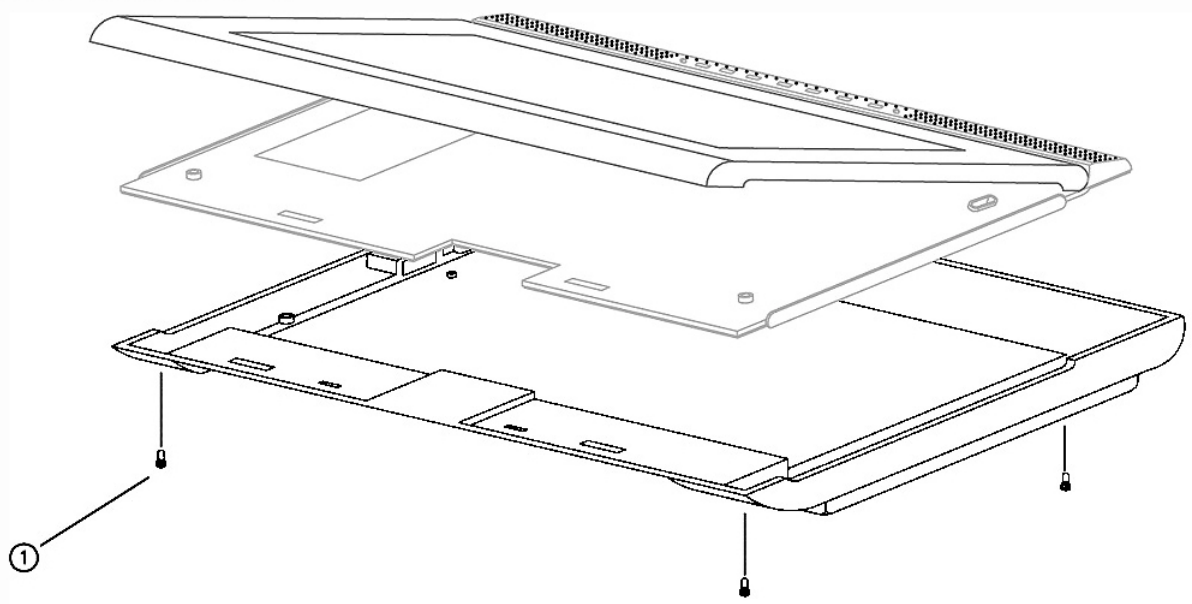




# ASSEMBLY(STEP-4)



ASSEMBLY(STEP-5)



**ASSEMBLY (STEP-1)**

| NO. | PART NO.     | DESCRIPTION                  |
|-----|--------------|------------------------------|
| 1   | 400-001A     | FRONT COVER                  |
| 2   | 405-001A     | LOCK BAR                     |
| 3   | 405-001B     | LOCK BAR SWITCH              |
| 4   | 410-001E     | SCREW PP2*0,4*3              |
| 5   | PANLP104S500 | 10.4" TFT LCD, LP104S5(B2AP) |
| 6   | 406-001A     | LOCK SPRING                  |
| 7   | 401-001A     | PANEL COVER                  |
| 8   | 405-001C     | LOCK STOPPER                 |
| 9   | 410-001A     | SCREW PTTB 2.5*7             |
| 10  | 403-00A      | HINGE ASSY                   |
| 11  | 410-001D     | SCREW PP 3*6                 |

**ASSEMBLY (STEP-2)**

| NO. | PART NO. | DESCRIPTION  |
|-----|----------|--------------|
| 1   | 410-001D | SCREW PP 3*6 |
| 2   | 402-002A | BASE COVER   |

**ASSEMBLY (STEP-3)**

| NO. | PART NO.     | DESCRIPTION      |
|-----|--------------|------------------|
| 1   | 402-001A     | TUNER COVER      |
| 2   | 610-001A     | SPEAKER          |
| 3   | 410-001A     | SCREW PTTB 2.5*7 |
| 4   | 408-002A     | SENSOR LENS      |
| 5   | 404-001A     | CONTROL KNOB     |
| 6   | AYCOLT10A01A | CONTROL BOARD    |
| 7   | 410-001A     | SCREW PTTB 2.5*7 |

**ASSEMBLY (STEP-4)**

| NO. | PART NO.     | DESCRIPTION      |
|-----|--------------|------------------|
| 1   | 401-002A     | BASE BACK        |
| 2   | AYIFLT11A01A | TUNER BOARD      |
| 3   | 410-001A     | SCREW PTTB 2.5*7 |
| 4   | 600-001A     | POWER SWITCH     |
| 5   | 622-001A     | INVERTER ASSY    |
| 6   | 410-001A     | SCREW PTTB 2.5*7 |
| 7   | AYMALT11A01A | MAIN BOARD       |
| 8   | 410-001A     | SCREW PTTB 2.5*7 |
| 9   | 450-001A     | DECO PLATE       |

**ASSEMBLY (STEP-5)**

| NO. | PART NO. | DESCRIPTION    |
|-----|----------|----------------|
| 1   | 410-001D | SCREW PTTB 3*6 |

# REPLACEMENT PARTS LIST

The components identified by mark ① is critical for safety.  
Replace only with part number specified.

For Capacitor & Resistors,  
the characters at 2nd 3rd  
digit in the P/No. means as  
follows

DH:Chip Diode  
DZ:Zener Diode  
DD:Rectifier Diode  
DS:Schottky Diode  
TR:Transistor

LB: Bead Core  
LY:Array Bead  
LA:Inductor  
LR:Choke Coil  
XT:Crystal

| LOCA. NO          | PART NO      | DESCRIPTION            |
|-------------------|--------------|------------------------|
| <b>IC</b>         |              |                        |
| IC01              | 1IC88L284ABS | IC, MX88L284-AEC       |
| IC02              | 1ICTI75L84TS | IC, SN75LVDS84AGGR     |
| IC03              | 0ICSS41616BS | IC, K4S16162D-TC80     |
| IC04              | 0ICSS41616BS | IC, K4S16162D-TC80     |
| IC07              | 0ICKE7027FTS | IC, KA7027AF           |
| IC101             | AYMILT10M01A | IC, SDA555XFL          |
| IC102             | 1ICSE24C16TS | IC, S-24C16AFJA-TB     |
| IC103             | 0ICKE7027FTS | IC, KA7027AF           |
| IC104             | 1ICRO033FPTS | IC, BA033FP            |
| IC501             | 1ICMI3230DBS | IC, VPC3230-QA-B4      |
| IC601             | 1ICMI3420GBS | IC, MSP3420G-QA-B8     |
| IC603             | 0ICKE7042FTS | IC,KA7042AF            |
| IC605             | 1ICSA42820AD | IC, LA4282             |
| IC801             | 1ICNS25765AD | IC, LM2576T-5.0        |
| IC802             | 1ICRO6161FTS | IC, BA6161F            |
| IC803             | 0ICVI4925DTS | IC, SI4925DY TP        |
| IC804             | 0ICKE78L5FTS | IC, KIA78L05F          |
| IC805             | 0ICKE78080AD | IC, KIA7808AP          |
| IC806             | 1ICRO033FPTS | IC, BA033FP            |
| IC807             | 0ICKE78L9FTS | IC, KIA78L09F          |
| IC820             | 0ICKE78R33AD | IC, KIA33R33PI         |
| IC821             | 0ICKE78R33AD | IC, KIA33R33PI         |
| Q109              | 1ICFC2N700TR | IC, 2N7000TA           |
| Q110              | 1ICFC2N700TR | IC, 2N7000TA           |
| <b>TRANSISTOR</b> |              |                        |
| Q101              | 0TRKE1504STS | TRANSISTOR, KTA1504S Y |
| Q111              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q302              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q401              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q402              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q403              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q505              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q604              | 0TRKE1504STS | TRANSISTOR, KTA1504S Y |
| Q801              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q802              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| Q820              | 0TRKE3875STS | TRANSISTOR, KTC3875S Y |
| <b>DIODE</b>      |              |                        |
| LD1101            | 0DLSLR1364BD | LED, SLR1364N-A        |
| ZD402             | 1DZSC5231BTS | ZENER, 5.1V MMSZ5231BS |
| ZD411             | 1DZSC5231BTS | ZENER, 5.1V MMSZ5231BS |
| ZD412             | 1DZSC5231BTS | ZENER, 5.1V MMSZ5231BS |
| ZD413             | 1DZSC5231BTS | ZENER, 5.1V MMSZ5231BS |
| D102              | 0DHKEKDS181S | DIODE, KDS181          |
| Q603              | 0DHKEKDS181S | DIODE, KDS181          |
| Q604              | 0DHKEKDS181S | DIODE, KDS181          |
| Q801              | 0DHKEKDS181S | DIODE, KDS181          |
| D802              | 1DDSKEU1ZMTA | DIODE, EU1Z SANKEN     |
| D803              | 0DSSCB340ATS | DIODE, B340A           |
| <b>COIL</b>       |              |                        |
| L410              | 0LASS120FKTA | COIL, 12UH AL02TB 120K |
| L413              | 0LASS270FKTA | COIL, 27UH AL02TB 270K |
| L801              | 0LRSM10100BD | COIL, 100UH SMC H100   |
| L802              | 0LRSM00100BD | COIL, 1MH SMC103       |

| LOCA. NO         | PART NO      | DESCRIPTION              |
|------------------|--------------|--------------------------|
| <b>CORE</b>      |              |                          |
| L01              | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L02              | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L03              | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L106             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L406             | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L407             | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L409             | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L411             | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L412             | 0LBSS101DJTS | CORE, 100OHM CIM21U101   |
| L601             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L602             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L603             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L604             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L803             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| L804             | 0LBSS601DJTS | CORE, 600OHM CIM31J601   |
| LA01             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA02             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA03             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA04             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA05             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA06             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA07             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA08             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA09             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA10             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA11             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA12             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA13             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA14             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA15             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA16             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA17             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA18             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| LA19             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA01             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA02             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA03             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA04             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA05             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| RA06             | 0LYSS600DJTS | CORE, 600HM CIA31J600NES |
| <b>CRYSTAL</b>   |              |                          |
| X01-1            | 0XTKI143180D | CRYSTAL,14.318MHZ 12PF   |
| X101             | 0XTKI600000D | CRYSTAL, 6MHZ 33PF       |
| X501             | 0XTKI202500D | CRYSTAL, 20.25MHZ 12PF   |
| X601             | 0XTKI184320D | CRYSTAL, 18.432MHZ 12PF  |
| <b>CAPACITOR</b> |              |                          |
| C01              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C02              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C03              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C04              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C05              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C07              | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z    |
| C32              | 0CHSS200DJTS | CHIP CAP, 20PF 50V J     |

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For Capacitor & Resistors,  
the characters at 2nd 3rd  
digit in the P/No. means as  
follows

CH:Chip Capacitor  
CE:Electrolytic  
Capacitor  
CB:Bipolar Capacitor  
CO: Poly Capacitor

| LOCA. NO | PART NO      | DESCRIPTION            |
|----------|--------------|------------------------|
| C33      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C34      | 0CESS221AMTR | ELEC CAP, 220UF 10V M  |
| C35      | 0CESS221AMTR | ELEC CAP, 220UF 10V M  |
| C36      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C37      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C38      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C39      | 0CHSS150DJTS | CHIP CAP, 15PF 50V J   |
| C40      | 0CHSS150DJTS | CHIP CAP, 15PF 50V J   |
| C41      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C42      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C43      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C44      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C45      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C46      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C47      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C48      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C49      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C50      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C51      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C52      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C53      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C54      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C55      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C56      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C57      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C58      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C59      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C60      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C61      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C62      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C63      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C64      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C65      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C66      | 0CHSS100DDTS | CHIP CAP, 10PF 50V D   |
| C67      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C68      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C69      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C70      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C71      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C72      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C73      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C74      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C75      | 0CESS100CMTR | ELEC CAP, 10UF 16V M   |
| C76      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C77      | 0CESS100CMTR | ELEC CAP, 10UF 16V M   |
| C78      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C79      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C80      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C81      | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C102     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K |
| C103     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K |
| C104     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K |
| C105     | 0CHSS330DJTS | CHIP CAP, 33PF 50V J   |
| C106     | 0CHSS330DJTS | CHIP CAP, 33PF 50V J   |
| C107     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z  |
| C108     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K |
| C109     | 0CHSS101DJTS | CHIP CAP, 100PF 50V J  |

| LOCA. NO | PART NO      | DESCRIPTION             |
|----------|--------------|-------------------------|
| C110     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C111     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C112     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C113     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C114     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C115     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C116     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C117     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C118     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C120     | 0CHSS153DJTS | CHIP CAP, 0.015UF 50V J |
| C142     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C143     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C144     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C151     | 0CHSS620DJTS | CHIP CAP, 62PF 50V J    |
| C152     | 0CHSS620DJTS | CHIP CAP, 62PF 50V J    |
| C228     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C238     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C402     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C405     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C406     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C417     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C418     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C419     | 0CHSS330DJTS | CHIP CAP, 33PF 50V J    |
| C420     | 0CHSS150DJTS | CHIP CAP, 15PF 50V J    |
| C421     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C422     | 0CESS2R2HMTR | ELEC CAP, 2.2UF 50V M   |
| C423     | 0CHSS080DCTS | CHIP CAP, 8PF 50V C     |
| C424     | 0CHSS560DJTS | CHIP CAP, 56PF 50V J    |
| C425     | 0CHSS471DJTS | CHIP CAP, 470PF 50V J   |
| C426     | 0CHSS471DJTS | CHIP CAP, 470PF 50V J   |
| C501     | 0CHSS683DKTS | CHIP CAP, 0.068UF 50V K |
| C502     | 0CHSS683DKTS | CHIP CAP, 0.068UF 50V K |
| C503     | 0CHSS200DJTS | CHIP CAP, 20PF 50V J    |
| C505     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C506     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C507     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C508     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C509     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C510     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C511     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C512     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C513     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C514     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C515     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C516     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C517     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C519     | 0CHSS473DKTS | CHIP CAP, 0.047UF 50V K |
| C520     | 0CTSS470CMTS | TANTAL CAP, 47UF 16V M  |
| C521     | 0CHSS391DJTS | CHIP CAP, 390PF 50V J   |
| C522     | 0CHSS102DKTS | CHIP CAP, 1000PF 50V K  |
| C523     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C524     | 0CHSS100DDTS | CHIP CAP, 10PF 50V D    |
| C526     | 0CTSS100CMTS | TANTAL CAP, 10UF 16V M  |
| C528     | 0CHSS222DKTS | CHIP CAP, 2200PF 50V K  |
| C531     | 0CHSS102DKTS | CHIP CAP, 1000PF 50V K  |
| C532     | 0CBSS010HMTR | BP CAP, 1UF 50V M       |
| C533     | 0CBSS010HMTR | BP CAP, 1UF 50V M       |

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Capacitor  
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CQ: Poly Capacitor  
CT:Tantal Capacitor

| LOCA. NO | PART NO      | DESCRIPTION             |
|----------|--------------|-------------------------|
| C534     | 0CBSS010HMTR | BP CAP, 1UF 50V M       |
| C535     | 0CBSS010HMTR | BP CAP, 1UF 50V M       |
| C536     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C537     | 0CHSS473DKTS | CHIP CAP, 0.047UF 50V K |
| C538     | 0CHSS152DKTS | CHIP CAP, 1500PF 50V K  |
| C539     | 0CHSS152DKTS | CHIP CAP, 1500PF 50V K  |
| C540     | 0CHSS391DJTS | CHIP CAP, 390PF 50V J   |
| C541     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C542     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C546     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C547     | 0CTSS220CMTS | TANTAL CAP, 22UF 16V M  |
| C548     | 0CHSS473DKTS | CHIP CAP, 0.047UF 50V K |
| C549     | 0CTSS470CMTS | TANTAL CAP, 22UF 16V M  |
| C550     | 0CHSS391DJTS | CHIP CAP, 390PF 50V J   |
| C551     | 0CHSS102DKTS | CHIP CAP, 1000PF 50V K  |
| C552     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C553     | 0CHSS030DCTS | CHIP CAP, 3PF 50V C     |
| C554     | 0CHSS030DCTS | CHIP CAP, 3PF 50V C     |
| C555     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C556     | 0CTSS100CMTS | TANTAL CAP, 10UF 16V M  |
| C557     | 0CHSS473DKTS | CHIP CAP, 0.047UF 50V K |
| C558     | 0CHSS152DKTS | CHIP CAP, 1500PF 50V K  |
| C559     | 0CHSS683DKTS | CHIP CAP, 0.068UF 50V K |
| C601     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C602     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C603     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C604     | 0CHSS560DJTS | CHIP CAP, 56PF 50V J    |
| C605     | 0CHSS560DJTS | CHIP CAP, 56PF 50V J    |
| C607     | 0CHSS020DCTS | CHIP CAP, 2PF 50V C     |
| C608     | 0CHSS020DCTS | CHIP CAP, 2PF 50V C     |
| C609     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C612     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C613     | 0CESS470CMTR | CHIP CAP, 47UF 16V M    |
| C614     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C615     | 0CHSS152DKTS | CHIP CAP, 1500PF 50V K  |
| C616     | 0CHSS152DKTS | CHIP CAP, 1500PF 50V K  |
| C619     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C620     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C621     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C622     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C624     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C625     | 0CESS3R3HMTR | ELEC CAP, 3.3UF 50V M   |
| C626     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C627     | 0CHSS222DKTS | CHIP CAP, 2200PF 50V K  |
| C628     | 0CHSS222DKTS | CHIP CAP, 2200PF 50V K  |
| C629     | 0CHSS222DKTS | CHIP CAP, 2200PF 50V K  |
| C630     | 0CHSS222DKTS | CHIP CAP, 2200PF 50V K  |
| C631     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C632     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C633     | 0CHSS224DZTS | CHIP CAP, 0.22UF 50V Z  |
| C636     | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z   |
| C638     | 0CHSS472DKTS | CHIP CAP, 4700PF 50V K  |
| C639     | 0CESS100CMTR | ELEC CAP, 10UF 16V M    |
| C640     | 0CHSS103DKTS | CHIP CAP, 0.01UF 50V K  |
| C641     | 0CESS101CMTR | ELEC CAP, 100UF 16V M   |
| C642     | 0CESS2R2HMTR | ELEC CAP, 2.2UF 50V M   |
| C643     | 0CESS101EMTR | ELEC CAP, 100UF 25V M   |

| LOCA. NO        | PART NO      | DESCRIPTION               |
|-----------------|--------------|---------------------------|
| C645            | 0CESS2R2HMTR | ELEC CAP, 2.2UF 50V M     |
| C646            | 0CESS101CMTR | ELEC CAP, 100UF 16V M     |
| C647            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C648            | 0CESS471CMTR | ELEC CAP, 470UF 16V M     |
| C649            | 0CQSS103KKTR | POLY CAP, 0.01UF 200V K   |
| C650            | 0CQSS103KKTR | POLY CAP, 0.01UF 200V K   |
| C651            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C652            | 0CESS471CMTR | ELEC CAP, 470UF 16V M     |
| C653            | 0CESS471CMTR | ELEC CAP, 470UF 16V M     |
| C654            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C655            | 0CESS470CMTR | ELEC CAP, 47UF 16V M      |
| C801            | 0CESS101FMTR | ELEC CAP, 100UF 35V M     |
| C802            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C803            | 0CESS220CMTR | ELEC CAP, 22UF 16V M      |
| C804            | 0CESS101FMTR | ELEC CAP, 100UF 35V M     |
| C805            | 0CESS471AMTR | ELEC CAP, 470UF 10V M     |
| C806            | 0CESS471AMTR | ELEC CAP, 470UF 10V M     |
| C807            | 0CESS4R7HMTR | ELEC CAP, 4.7UF 50V M     |
| C808            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C809            | 0CESS221CMTR | ELEC CAP, 220UF 16V M     |
| C811            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C812            | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| C816            | 0CESS470CMTR | ELEC CAP, 47UF 16V M      |
| C820            | 0CESS221AMTR | ELEC CAP, 220UF 10V M     |
| C821            | 0CESS221AMTR | ELEC CAP, 220UF 10V M     |
| C1101           | 0CHSS104DZTS | CHIP CAP, 0.1UF 50V Z     |
| <b>RESISTOR</b> |              |                           |
| C119            | 0RHSS000DJTS | CHIP RES, 00HM 1/16W J    |
| C409            | 0RHSS750DJTS | CHIP RES, 750HM 1/16W J   |
| C410            | 0RHSS750DJTS | CHIP RES, 750HM 1/16W J   |
| R01             | 0RHSS270DJTS | CHIP RES, 270HM 1/16W J   |
| R03             | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |
| R04             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R05             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R06             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R07             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R08             | 0RHSS105DJTS | CHIP RES, 1MOHM 1/16W J   |
| R11             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R12             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R13             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R14             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R15             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R16             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R17             | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |
| R18             | 0RHSS273DJTS | CHIP RES, 27KOHM 1/16W J  |
| R19             | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R20             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R21             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R22             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R23             | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |
| R30             | 0RHSS220DJTS | CHIP RES, 220HM 1/16W J   |
| R101            | 0RHSS182DJTS | CHIP RES, 1.8KOHM 1/16W J |
| R102            | 0RHSS000DJTS | CHIP RES, 00HM 1/16W J    |
| R104            | 0RHSS223DJTS | CHIP RES, 22KOHM 1/16W J  |
| R106            | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |
| R107            | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |
| R108            | 0RHSS101DJTS | CHIP RES, 1000HM 1/16W J  |

The components identified by mark ① is critical for safety.  
Replace only with part number specified.

For Capacitor & Resistors, the characters at 2nd 3<sup>rd</sup> digit in the P/No. means as follows

RH:Chip Resistor  
RD: Carbon Resistor

| LOCA. NO | PART NO      | DESCRIPTION               |
|----------|--------------|---------------------------|
| R109     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R110     | 0RHSS471DJTS | CHIP RES, 470OHM 1/16W J  |
| R111     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R112     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R113     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R114     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R115     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R116     | 0RHSS433DJTS | CHIP RES, 43KOHM 1/16W J  |
| R117     | 0RHSS221DJTS | CHIP RES, 220OHM 1/16W J  |
| R118     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R119     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R120     | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R122     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R124     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R125     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R126     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R127     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R128     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R129     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R130     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R131     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R132     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R140     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R141     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R142     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R143     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R144     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R145     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R146     | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R147     | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R149     | 0RHSS104DJTS | CHIP RES, 100OHM 1/16W J  |
| R150     | 0RHSS221DJTS | CHIP RES, 220OHM 1/16W J  |
| R151     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R152     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R163     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R164     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R166     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R170     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R171     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R172     | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R174     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R175     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R176     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R177     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R178     | 0RHSS123DJTS | CHIP RES, 12KOHM 1/16W J  |
| R179     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R182     | 0RHSS221DJTS | CHIP RES, 220OHM 1/16W J  |
| R183     | 0RHSS223DJTS | CHIP RES, 22KOHM 1/16W J  |
| R190     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R191     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R192     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R193     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R194     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R195     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R196     | 0RHSS272DJTS | CHIP RES, 2.7KOHM 1/16W J |
| R197     | 0RHSS272DJTS | CHIP RES, 2.7KOHM 1/16W J |
| R402     | 0RHSS473DJTS | CHIP RES, 47KOHM 1/16W J  |

| LOCA. NO | PART NO      | DESCRIPTION               |
|----------|--------------|---------------------------|
| R403     | 0RHSS333DJTS | CHIP RES, 33KOHM 1/16W J  |
| R404     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R405     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R406     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R416     | 0RHSS473DJTS | CHIP RES, 47KOHM 1/16W J  |
| R417     | 0RHSS333DJTS | CHIP RES, 33KOHM 1/16W J  |
| R418     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R419     | 0RHSS473DJTS | CHIP RES, 47KOHM 1/16W J  |
| R420     | 0RHSS333DJTS | CHIP RES, 33KOHM 1/16W J  |
| R421     | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R424     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R425     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R428     | 0RDSS121HJTA | Carbon RES, 120OHM 1/2W J |
| R429     | 0RDSS121HJTA | Carbon RES, 120OHM 1/2W J |
| R430     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R431     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R432     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R433     | 0RHSS471DJTS | CHIP RES, 470OHM 1/16W J  |
| R434     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R435     | 0RHSS512DJTS | CHIP RES, 5.1KOHM 1/16W J |
| R436     | 0RHSS474DJTS | CHIP RES, 470KOHM 1/16W J |
| R437     | 0RHSS512DJTS | CHIP RES, 5.1KOHM 1/16W J |
| R438     | 0RHSS474DJTS | CHIP RES, 470KOHM 1/16W J |
| R441     | 0RHSS151DJTS | CHIP RES, 150OHM 1/16W J  |
| R501     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R502     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R505     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R506     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R507     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R508     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R509     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R510     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R511     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R512     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R514     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R515     | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R516     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R517     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R518     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R519     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R520     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R526     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R532     | 0RHSS100DJTS | CHIP RES, 10OHM 1/16W J   |
| R533     | 0RHSS272DJTS | CHIP RES, 2.7KOHM 1/16W J |
| R534     | 0RHSS220DJTS | CHIP RES, 220OHM 1/16W J  |
| R540     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R541     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R542     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R543     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R544     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R545     | 0RHSS750DJTS | CHIP RES, 750OHM 1/16W J  |
| R546     | 0RHSS000DJTS | CHIP RES, 0OHM 1/16W J    |
| R552     | 0RHSS112DJTS | CHIP RES, 1.1KOHM 1/16W J |
| R553     | 0RHSS821DJTS | CHIP RES, 820OHM 1/16W J  |
| R601     | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R602     | 0RHSS105DJTS | CHIP RES, 1MOHM 1/16W J   |
| R605     | 0RHSS100DJTS | CHIP RES, 10OHM 1/16W J   |

The components identified by mark ① is critical for safety.  
Replace only with part number specified.

For Capacitor & Resistors, the characters at 1st,2nd and 3rd digit in the P/No. means as follows.

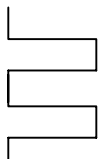
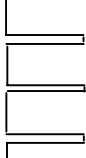


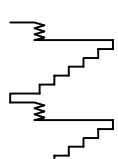
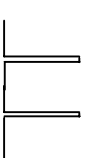

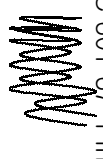
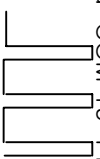

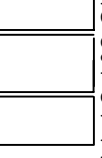
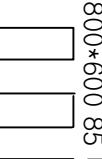
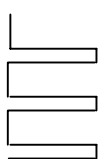




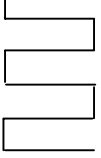

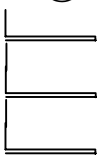
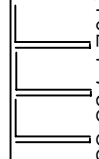
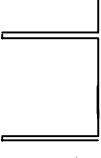


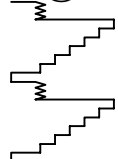






RH: Chip Resister  
RD:Carbon Resister  
JA: Jack  
WAF: Pin Wafer

| LOCA. NO       | PART NO      | DESCRIPTION               |
|----------------|--------------|---------------------------|
| R606           | 0RHSS273DJTS | CHIP RES, 27KOHM 1/16W J  |
| R607           | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R608           | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R613           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R614           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R615           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R616           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R617           | 0RHSS101DJTS | CHIP RES, 100OHM 1/16W J  |
| R618           | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R619           | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R620           | 0RHSS561DJTS | CHIP RES, 560OHM 1/16W J  |
| R622           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R623           | 0RHSS3R3DJTS | CHIP RES, 3.3OHM 1/16W J  |
| R624           | 0RHSS3R3DJTS | CHIP RES, 3.3OHM 1/16W J  |
| R625           | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R626           | 0RHSS332DJTS | CHIP RES, 3.3KOHM 1/16W J |
| R627           | 0RHSS561DJTS | CHIP RES, 560OHM 1/16W J  |
| R628           | 0RHSS683DJTS | CHIP RES, 68KOHM 1/16W J  |
| R629           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R630           | 0RHSS151DJTS | CHIP RES, 150OHM 1/16W J  |
| R631           | 0RHSS103DJTS | CHIP RES, 10KOHM 1/16W J  |
| R632           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R633           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R634           | 0RHSS000EJTS | CHIP RES, 0OHM 1/16W J    |
| R635           | 0RHSS000EJTS | CHIP RES, 0OHM 1/16W J    |
| R636           | 0RHSS000EJTS | CHIP RES, 0OHM 1/16W J    |
| R637           | 0RHSS000EJTS | CHIP RES, 0OHM 1/16W J    |
| R801           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R802           | 0RHSS103DJTS | CHIP RES, 10KOHM 1/16W J  |
| R804           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R805           | 0RHSS103DJTS | CHIP RES, 10KOHM 1/16W J  |
| R806           | 0RHSS104DJTS | CHIP RES, 100KOHM 1/16W J |
| R807           | 0RHSS122DJTS | CHIP RES, 1.2KOHM 1/16W J |
| R811           | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R812           | 0RHSS220DJTS | CHIP RES, 22OHM 1/16W J   |
| R813           | 0RHSS220DJTS | CHIP RES, 22OHM 1/16W J   |
| R814           | 0RHSS182DJTS | CHIP RES, 1.8KOHM 1/16W J |
| R815           | 0RHSS242DJTS | CHIP RES, 2.4KOHM 1/16W J |
| R816           | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R820           | 0RHSS472DJTS | CHIP RES, 4.7KOHM 1/16W J |
| R821           | 0RHSS102DJTS | CHIP RES, 1KOHM 1/16W J   |
| R1101          | 0RHSS331DJTS | CHIP RES, 330OHM 1/16W J  |
| R1102          | 0RHSS681DJTS | CHIP RES, 680OHM 1/16W J  |
| R1103          | 0RHSS911DJTS | CHIP RES, 910OHM 1/16W J  |
| R1104          | 0RHSS162DJTS | CHIP RES, 1.6KOHM 1/16W J |
| R1105          | 0RHSS681DJTS | CHIP RES, 680OHM 1/16W J  |
| R1106          | 0RHSS911DJTS | CHIP RES, 910OHM 1/16W J  |
| <b>PRE-AMP</b> |              |                           |
| PA1102         | 0PAVI48380AD | PRE-AMP, TSOP4838         |
| <b>SWITCH</b>  |              |                           |
| SW100          | 1SWDDAHF23BD | S/W, SENSE AHF23          |
| SW1101         | 600-002A     | S/W, TACK YTP-1141A       |
| SW1102         | 600-002A     | S/W, TACK YTP-1141A       |
| SW1103         | 600-002A     | S/W, TACK YTP-1141A       |
| SW1104         | 600-002A     | S/W, TACK YTP-1141A       |
| SW1105         | 600-002A     | S/W, TACK YTP-1141A       |
| SW1106         | 600-002A     | S/W, TACK YTP-1141A       |

| LOCA. NO         | PART NO      | DESCRIPTION                  |
|------------------|--------------|------------------------------|
| SW1107           | 600-002A     | S/W, TACK YTP-1141A          |
| <b>PIN WAFER</b> |              |                              |
| P01              | WAFYH20125AS | PIN WAFER, 12507WR-20        |
| P101             | WAFLG06250SD | PIN WAFER, GIL-G-6P-S3T2     |
| P104             | WAFLG04250SD | PIN WAFER, GIL-G-4P-S3T2     |
| P1101            | WAFML06200AD | PIN WAFER, 53014-0610(ANGLE) |
| P301A            | WAFYH20125AS | PIN WAFER, 12507WR-20        |
| P501             | WAFML06200SD | PIN WAFER, 53014-0610(S/T)   |
| P601             | WAFYH02200SD | PIN WAFER, SMW200-02         |
| P602             | WAFYH03200SD | PIN WAFER, SMW200-03         |
| P801             | WAFYH02250SD | PIN WAFER, YMW025-02R        |
| P802             | WAFYH05125AS | PIN WAFER, 12505WR-05        |
| <b>JACK</b>      |              |                              |
| J401             | 0JAPK6063C0D | JACK, PJ6063C 3P             |
| J402             | 0JAPK014A00D | JACK, PMJ014A                |
| J801             | 1JADM231000D | JACK, DS231-115              |



TV Signal : Color Bar / 1kHz      PC Signal : SVGA@85Hz(800\*600@85Hz)

|                                         |                                                                                                                      |                                         |                                                                                                                      |                                                                                                     |                                                                                                                        |                                                                                                                      |                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| • IC 801 2-Pin(LM2576)                  |                                                                                                                      | • IC01 MX IC 203-PIN<br>(800*600 85 Hz) |                                                                                                                      | • IC 605 7-Pin (LA4282)                                                                             |                                                                                                                        | • IC601 71-Pin                                                                                                       |                                                                                                                        |
| (1)                                     | <br>Vp-p : 12.5V<br>F : 49.71 kHz | (9)                                     | <br>Vp-p : 3.64V<br>F : 68.68 kHz | (17)                                                                                                | <br>Vp-p : 1.1V                   | (25)                                                                                                                 | <br>Vp-p : 3.24V<br>F : 18.48 MHz |
| • μ-COM 12-Pin                          |                                                                                                                      | • IC01 MX IC 204-PIN<br>(800*600 85 Hz) |                                                                                                                      | • R501                                                                                              |                                                                                                                        | • IC 601 67-Pin                                                                                                      |                                                                                                                        |
| (2)                                     | <br>Vp-p : 1.5V                   | (10)                                    | <br>Vp-p : 3.76V<br>F : 84.96 Hz  | (18)                                                                                                | <br>Vp-p : 3.64V<br>F : 13.51 MHz | (26)                                                                                                                 | <br>Vp-p : 108mV                  |
| • μ-COM 19-Pin                          |                                                                                                                      | • IC01 MX IC 34-PIN                     |                                                                                                                      | • IC 501 54-Pin                                                                                     |                                                                                                                        | • IC201 7-Pin(RGB Pattern<br>,800*600 85 Hz)                                                                         |                                                                                                                        |
| (3)                                     | <br>Vp-p : 3.5V<br>F : 15.63 kHz   | (11)                                    | <br>Vp-p : 2.44V<br>F : 14.33 MHz  | (19)                                                                                                | <br>Vp-p : 3.76V<br>F : 15.62 kHz  | (27)                                                                                                                 | <br>Vp-p : 760mV<br>F : 68.68 kHz  |
| • μ-COM 20-Pin                          |                                                                                                                      | • IC01 MX IC 70-PIN                     |                                                                                                                      | • IC 501 56-Pin                                                                                     |                                                                                                                        | • L202 (RGB,800*600 85 Hz)                                                                                           |                                                                                                                        |
| (4)                                     | <br>Vp-p : 3.64V<br>F : 50Hz        | (12)                                    | <br>Vp-p : 3.18V<br>F : 75.19 MHz   | (20)                                                                                                | <br>Vp-p : 3.48V<br>F : 15.63 kHz   | (28)                                                                                                                 | <br>Vp-p : 1.2V<br>F : 94.34 MHz    |
| • μ-COM 23-Pin<br>(1024*768 85 Hz)      |                                                                                                                      | • R05                                   |                                                                                                                      | (21)                                                                                                |                                                                                                                        | • R203 (RGB,800*600 85 Hz)                                                                                           |                                                                                                                        |
| (5)                                     | <br>Vp-p : 4V<br>F : 85Hz           | (13)                                    | <br>Vp-p : 3.52V<br>F : 48.08 kHz   | <br>F : 50Hz     |                                                                                                                        | (29)                                                                                                                 |                                                                                                                        |
| • μ-COM 26-Pin<br>(1024*768 85 Hz)      |                                                                                                                      | • R06                                   |                                                                                                                      | (22)                                                                                                |                                                                                                                        | <br>Vp-p : 3.48V<br>F : 68.68 kHz |                                                                                                                        |
| (6)                                     | <br>Vp-p : 3.88V<br>F : 68.68 kHz   | (14)                                    | <br>Vp-p : 3.68V<br>F : 50Hz        | • IC 501 70-Pin                                                                                     |                                                                                                                        | • IC 101 17-Pin                                                                                                      |                                                                                                                        |
| • μ-COM 35-Pin                          |                                                                                                                      | • R07                                   |                                                                                                                      | (22)                                                                                                |                                                                                                                        | (30)                                                                                                                 |                                                                                                                        |
| (7)                                     | <br>Vp-p : 1.17V<br>F : 6.01 MHz    | (15)                                    | <br>Vp-p : 3.64V<br>F : 48.14 kHz   | • R609                                                                                              |                                                                                                                        | <br>Vp-p : 2.16V                  |                                                                                                                        |
| • IC01 MX IC 207-PIN<br>(800*600 85 Hz) |                                                                                                                      | • IC 605 2-Pin (LA4282)                 |                                                                                                                      | (23)                                                                                                |                                                                                                                        | (31)                                                                                                                 |                                                                                                                        |
| (8)                                     | <br>Vp-p : 1.16V<br>F : 94.70 MHz   | (16)                                    | <br>Vp-p : 30mV                     | <br>Vp-p : 1.62V |                                                                                                                        | <br>On Off                        |                                                                                                                        |
|                                         |                                                                                                                      | • IC 601 28-Pin                         |                                                                                                                      | (24)                                                                                                |                                                                                                                        | (32)                                                                                                                 |                                                                                                                        |
|                                         |                                                                                                                      |                                         |                                                                                                                      | <br>Vp-p : 180mV |                                                                                                                        | <br>On Off                        |                                                                                                                        |

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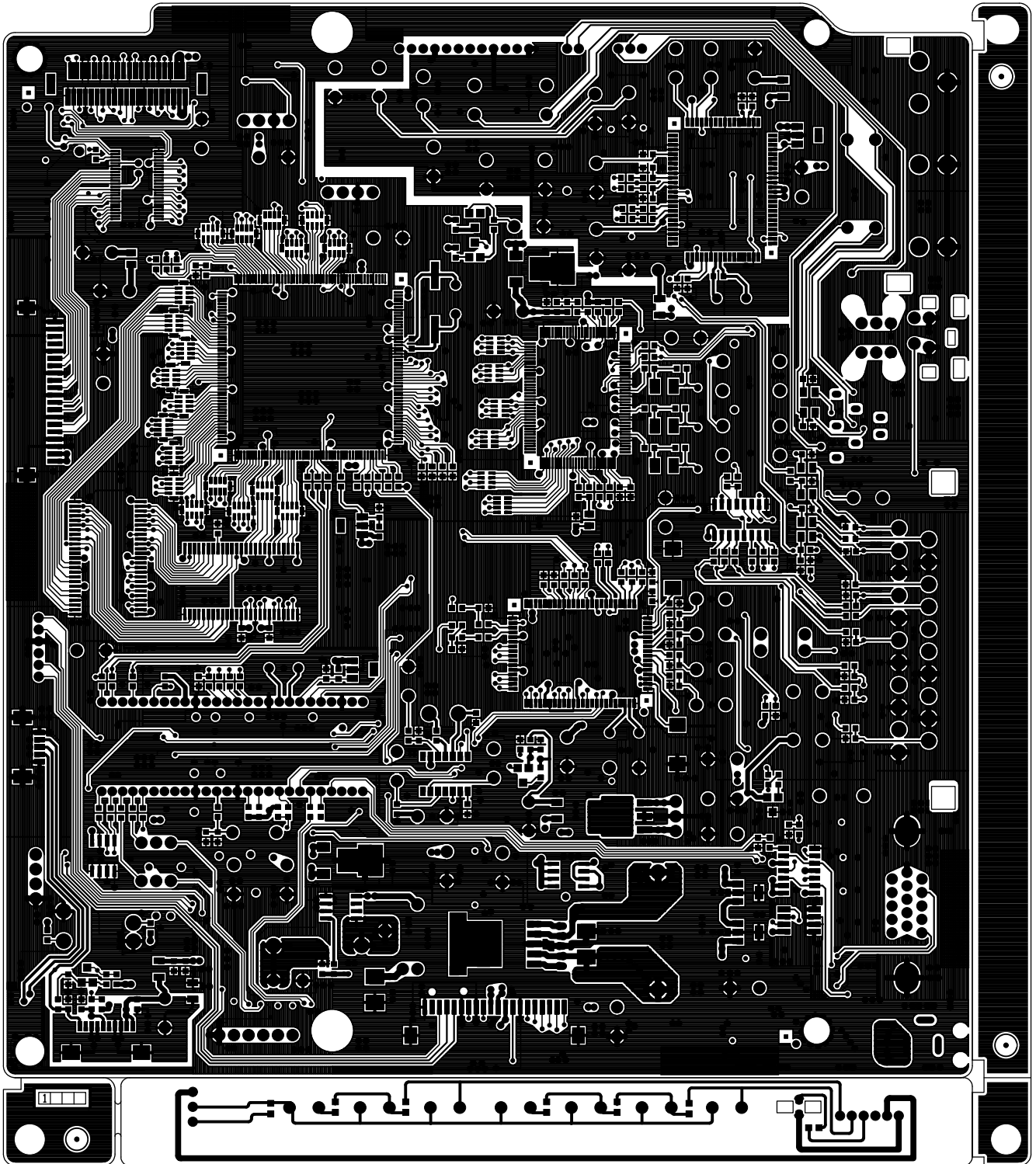


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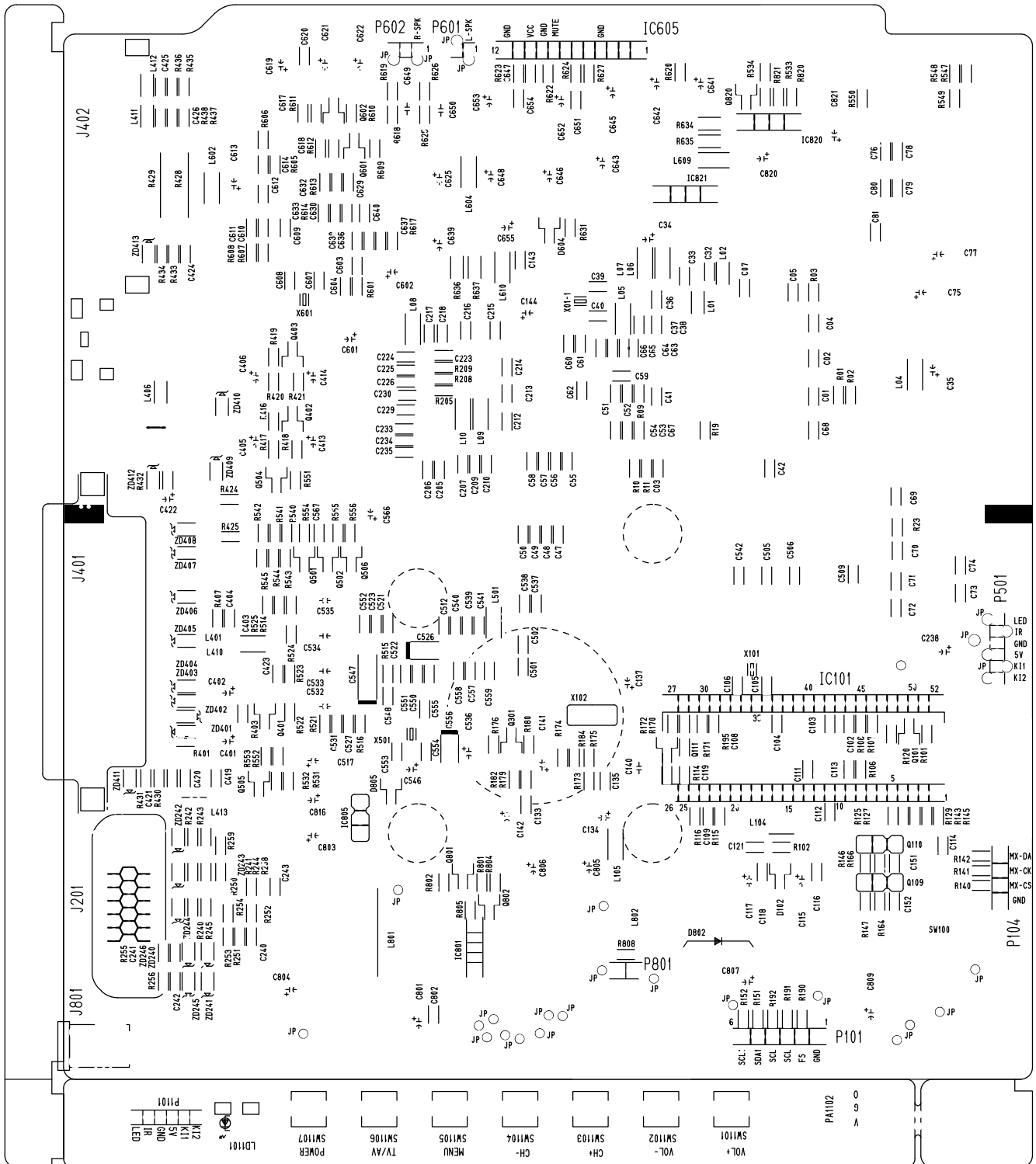
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